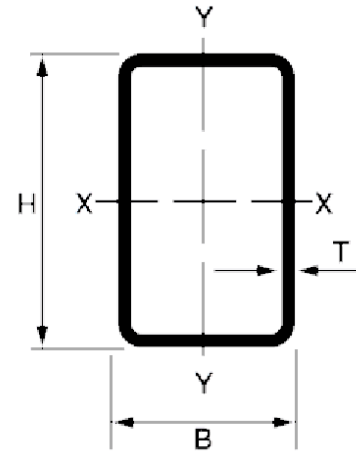


RAINHAM STEEL

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Cold Formed Rectangles

EN 10219



Size	Thickness	Mass	Area	Moment of Inertia		Radius of gyration		Elastic modulus		Plastic modulus		Torsional constants		Superficial area	Approx. length/tonne
				H x B	T	M	A	I _{xx}	I _{yy}	i _{xx}	i _{yy}	W _{elxx}	W _{elyy}		
mm	mm	kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³	m ² /m	m
120x60	5.0	12.8	16.4	287	96.0	4.19	2.42	47.8	32.0	60.9	37.4	242	55.8	0.343	77.9
120x60	6.0	15.1	19.2	328	109	4.13	2.38	54.7	36.3	70.6	43.1	280	63.6	0.339	66.2
120x80	5.0	14.4	18.4	353	188	4.39	3.20	58.9	46.9	72.4	54.7	402	77.8	0.383	69.4
120x80	6.0	17.0	21.6	406	215	4.33	3.15	67.7	53.8	84.3	63.5	469	89.4	0.379	58.9
120x80	8.0	21.4	27.2	476	252	4.18	3.04	79.3	62.9	102	76.9	584	108	0.366	46.8
160x80	5.0	17.5	22.4	722	244	5.68	3.30	90.2	61.0	113	69.7	601	106	0.463	57.0
160x80	6.0	20.7	26.4	836	281	5.62	3.26	105	70.2	132	81.3	702	122	0.459	48.2
160x80	8.0	26.4	33.6	1001	335	5.46	3.16	125	83.7	163	100	882	150	0.446	37.9
150x100	5.0	18.3	23.4	719	384	5.55	4.05	95.9	76.8	117	88.3	809	127	0.483	54.5
150x100	6.0	21.7	27.6	835	444	5.50	4.01	111	88.8	137	103	948	147	0.479	46.1
150x100	8.0	27.7	35.2	1008	536	5.35	3.90	134	107	169	128	1206	182	0.466	36
150x100	10.0	33.4	42.6	1162	614	5.22	3.80	155	123	199	150	1426	211	0.457	29.9
200x100	4.0	18.0	22.9	1200	411	7.23	4.23	120	82.2	148	91.7	985	142	0.586	55.5
200x100	5.0	22.3	28.4	1459	497	7.17	4.19	146	99.4	181	112	1206	172	0.583	44.9
200x100	6.0	26.4	33.6	1703	577	7.12	4.14	170	115	213	132	1417	200	0.579	37.9
200x100	8.0	33.9	43.2	2091	705	6.95	4.04	209	141	267	165	1811	250	0.566	29.5
200x100	10.0	41.3	52.6	2444	818	6.82	3.94	244	164	318	195	2154	292	0.557	24.2
200x100	12.5	48.7	62.04	2658	892	6.55	3.79	265	178	359	220	2473	328	0.536	20.5

Size	Thickness	Mass	Area	Moment of Inertia		Radius of gyration		Elastic modulus		Plastic modulus		Torsional constants		Superficial area	Approx. length/tonne
H x B mm	T mm	M kg/m	A cm ²	Ixx cm ⁴	Iyy cm ⁴	ixx cm	Iyy cm	Welxx cm ³	Welyy cm ³	Wplx cm ³	Wplyy cm ³	It cm ⁴	Ct cm ³	m ² /m	m
200x150	5.0	26.2	33.4	1935	1245	7.62	6.11	193	166	230	189	2391	267	0.683	38.2
200x150	6.0	31.1	39.6	2268	1457	7.56	6.06	227	194	271	223	2826	313	0.679	32.1
200x150	8.0	40.2	51.2	2829	1816	7.43	5.95	283	242	344	283	3665	396	0.666	24.9
200x150	10.0	49.1	62.6	3348	2143	7.31	5.85	335	286	413	339	4428	471	0.657	20.4
250x150	5.0	30.1	38.4	3304	1508	9.28	6.27	264	201	320	225	3285	337	0.783	33.2
250x150	6.0	35.8	45.6	3886	1768	9.23	6.23	311	236	378	266	3886	396	0.779	27.9
250x150	8.0	46.5	59.2	4886	2219	9.08	6.12	391	296	482	340	5050	504	0.766	21.5
250x150	10.0	57.0	72.6	5825	2634	8.96	6.02	466	351	582	409	6121	602	0.757	17.6
250x150	12.5	68.3	87.0	6633	3002	8.73	5.87	531	400	678	477	7315	704	0.736	14.6
300x200	6.0	45.2	57.6	7370	3962	11.3	8.29	491	396	588	446	8115	651	0.979	22.1
300x200	8.0	59.1	75.2	9389	5042	11.2	8.19	626	504	757	574	10627	838	0.966	16.9
300x200	10.0	72.7	92.6	11313	6058	11.1	8.09	754	606	921	698	12987	1012	0.957	13.8
300x200	12.5	88.0	112	13179	7060	10.8	7.94	879	706	1091	828	15768	1204	0.936	11.4
400x200	8.0	71.6	91.2	18974	6517	14.4	8.45	949	652	1173	728	15820	1133	1.17	14.0
400x200	10.0	88.4	113	23003	7864	14.3	8.36	1150	786	1434	888	19368	1373	1.16	11.3
400x200	12.5	108	137	27100	9260	14.1	8.22	1355	926	1714	1062	23594	1644	1.14	9.30